

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	1653	169/17 137/527.8 137/516.25	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/07 15:28
S2	5	ringer-yoram.in.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/09 15:02
S3	71	(169/17 137/527.8 137/516.25) and clapper	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 12:17
S4	191	("3176284" "3597632" "3623088" "3625289" "3633676" "3688130" "3713126" "3715623" "3715700" "3740585" "3742337" "3745382" "3746887" "3749864" "3756321" "3764832" "3779004" "3794858" "3846648" "3857277" "3874456" "3896850" "3906641" "3921989" "3940634" "3946691" "4103294" "4152608" "4319236" "4331914" "4353390" "4382192" "4458239" "4586893" "4745311" "4757865" "4791254" "4831350" "4866426" "4914566" "4963857" "4977963" "4987957" "5036234" "5038820" "5063775" "5072792" "5086273" "5140263" "5195592" "5198973" "5234059" "5236011" "5305787" "5323062" "5372203" "5400446" "5406979" "5504426" "5523682" "5589769" "5621317" "5632339" "5705987" "5723918" "5889400" "6113642").PN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 12:49
S5	71	(169/17 137/527.8 137/516.25) and clapper	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:34
S6	0	"6000473".URPN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 12:26

S7	11	("3473612" "3595318" "4854342" "5295503" "5439028").PN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 12:27
S8	191	("3176284" "3597632" "3623088" "3625289" "3633676" "3688130" "3713126" "3715623" "3715700" "3740585" "3742337" "3745382" "3746887" "3749864" "3756321" "3764832" "3779004" "3794858" "3846648" "3857277" "3874456" "3896850" "3906641" "3921989" "3940634" "3946691" "4103294" "4152608" "4319236" "4331914" "4353390" "4382192" "4458239" "4586893" "4745311" "4757865" "4791254" "4831350" "4866426" "4914566" "4963857" "4977963" "4987957" "5036234" "5038820" "5063775" "5072792" "5086273" "5140263" "5195592" "5198973" "5234059" "5236011" "5305787" "5323062" "5372203" "5400446" "5406979" "5504426" "5523682" "5589769" "5621317" "5632339" "5705987" "5723918" "5889400" "6113642").PN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 12:50
S9	1256	169/19 169/20 137/523	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/10/23 10:02
S10	894	169/19 169/20 137/523 and clapper	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 12:57
S11	26	((169/19 169/20 169/18 169/21 169/22 137/523) and valve) and clapper	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:10
S12	0	"6158520".URPN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 12:59
S13	20	("1861777" "3785440" "4105076" "4286668" "4615353" "4854342" "5294090").PN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:00

S14	382	137/516.25	USPAT; EPO; JPO; DERWENT	OR	OFF	2005/04/25 14:40
S15	243	169/17	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:25

S16	2297	((169/17 137/527.8 137/516.25) and clapper) "6000473".URPN. ((("3473612" "3595318" "4854342" "5295503" "5439028").PN.) (("3176284" "3597632" "3623088" "3625289" "3633676" "3688130" "3713126" "3715623" "3715700" "3740585" "3742337" "3745382" "3746887" "3749864" "3756321" "3764832" "3779004" "3794858" "3846648" "3857277" "3874456" "3896850" "3906641" "3921989" "3940634" "3946691" "4103294" "4152608" "4319236" "4331914" "4353390" "4382192" "4458239" "4586893" "4745311" "4757865" "4791254" "4831350" "4866426" "4914566" "4963857" "4977963" "4987957" "5036234" "5038820" "5063775" "5072792" "5086273" "5140263" "5195592" "5198973" "5234059" "5236011" "5305787" "5323062" "5372203" "5400446" "5406979" "5504426" "5523682" "5589769" "5621317" "5632339" "5705987" "5723918" "5889400" "6113642").PN.) (169/19 169/20 137/523) (169/19 169/20 137/523 and clapper) (169/19 169/20 169/18 169/21 169/22 137/523) ((169/19 169/20 169/18 169/21 169/22 137/523) and valve) (((169/19 169/20 169/18 169/21 169/22 137/523) and valve) and clapper) "6158520".URPN. ((("1861777" "3785440" "4105076" "4286668" "4615353" "4854342" "5294090").PN.) 137/516.25 169/17	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:35
S17	1475200	differential valve	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/03 09:45

S18	730	(differential valve) and clapper	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/03 09:46
S19	1312	differential adj valve	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:42
S20	5	(differential adj valve) and clapper	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:41
S21	0	(differential adj valve) and (off adj centered)	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:41
S22	17259	air adj valve	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:42
S23	17259	(air adj valve) near6 (water valve)	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:45
S24	34	(differential adj valve) and ((air adj valve) near6 (water valve))	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:46
S25	37	dry adj pipe adj valve	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:47
S26	1653	169/17 137/527.8 137/516.25	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:09
S27	1196	((169/19 169/20 169/18 169/21 169/22 137/523) or (169/17 137/527.8 137/516.25)) and valve	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 16:30
S28	25	((air adj valve) near6 (water valve)) and (((169/19 169/20 169/18 169/21 169/22 137/523) or (169/17 137/527.8 137/516.25)) and valve)	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:50
S29	78	((((169/19 169/20 169/18 169/21 169/22 137/523) or (169/17 137/527.8 137/516.25)) and valve) and clapper	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:52
S30	0	"4552221".URPN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:55
S31	7	("1911107" "3307633" "4267858").PN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:55
S32	1	"1911107".URPN.	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:56

S33	3061	(169/19 169/20 169/18 169/21 169/22 137/523) or (169/17 137/527.8 137/516.25)	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 13:59
S34	0	25@pd<="1971"	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:00
S35	0	25@pd<="19711118"	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:00
S36	3904621	(169/19 169/20 169/18 169/21 169/22 137/523)@pd<="19711118"	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:34
S37	0	(169/17 137/527.8 137/516.25) <= "1971"	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:12
S38	2040	(169/17 137/527.8 137/516.25) @pd<= "1971"	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:11
S39	1531	169/19 169/20 169/18 169/21 169/22 137/523	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:12
S40	1531	169/19 169/20 169/18 169/21 169/22 137/523	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:34
S41	3061	(169/19 169/20 169/18 169/21 169/22 137/523) (169/17 137/527.8 137/516.25)	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:35
S42	1653	169/17 137/527.8 137/516.25	USPAT; EPO; JPO; DERWENT	OR	OFF	2001/08/10 14:36
S43	175	dry adj pipe	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/03/28 15:47
S44	115	(dry adj pipe) and valve	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/03/28 15:47
S45	0	((dry adj pipe) and valve) and (off adj center\$3)	USPAT; EPO; JPO; DERWENT	OR	OFF	2002/03/28 15:48
S46	1719	169/17 137/527.8 137/516.25	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/08/07 17:11
S47	1102	(137/527.?).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2003/08/07 17:12

S48	257	(137/516.25).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2003/08/07 17:13
S49	0	("003AND4").PN.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2003/08/07 17:21
S50	11	((137/527.?).CCLS.) and ((137/516.25).CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/07 17:23
S51	0	"4321942".URPN.	USPAT	OR	OFF	2003/08/07 17:15
S52	3	("2654388" "3171423" "3785397").PN.	USPAT	OR	OFF	2003/08/07 17:15
S53	4	"4249568".URPN.	USPAT	OR	OFF	2003/08/07 17:16
S54	3	("2654388" "3171423" "3785397").PN.	USPAT	OR	OFF	2003/08/07 17:17
S55	14	((137/527,527.2,527.4,527.6,527. 8).CCLS.) and ((137/516.25). CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 16:31
S56	1582	169/19 169/20 169/18 169/21 169/22 137/523	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 16:30
S57	1649	(137/527,527.2,527.4,527.6,527. 8).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2003/08/10 16:32
S58	3220	(169/19 169/20 169/18 169/21 169/22 137/523) ((137/527,527. 2,527.4,527.6,527.8).CCLS.)	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 16:32
S59	502	((169/19 169/20 169/18 169/21 169/22 137/523) ((137/527,527. 2,527.4,527.6,527.8).CCLS.)) and actuat\$3	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 16:43
S60	7	"4637425".URPN.	USPAT	OR	OFF	2003/08/10 16:41
S61	11	("0372494" "0961738" "1233659" "1687860" "1899154" "1991081" "2363117" "2904064" "2910079" "3381933" "3817278").PN.	USPAT	OR	OFF	2003/08/10 16:41
S62	344	137/390	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 16:43
S63	4	((169/19 169/20 169/18 169/21 169/22 137/523) ((137/527,527. 2,527.4,527.6,527.8).CCLS.)) and 137/390	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/08/10 16:43

S64	21	"3613720".URPN.	USPAT	OR	OFF	2003/10/23 07:33
S65	3	"6050294".URPN.	USPAT	OR	OFF	2003/10/23 07:36
S66	14	("0093294" "0107605" "0735912" "0985122" "1285110" "1393204" "2356815" "3331391" "3613720" "3640306" "3990471" "4027695" "4274436" "4330006").PN.	USPAT	OR	OFF	2003/10/23 07:36
S67	9	("1925392" "1992495" "3465786" "0254227" "1488831" "1829666" "3128785" "3292653" "0627473").PN.	USPAT	OR	OFF	2003/10/23 07:42
S68	2	"1925392".URPN.	USPAT	OR	OFF	2003/10/23 07:45
S69	9	"2654388".URPN.	USPAT	OR	OFF	2003/10/23 07:49
S70	2	"3135332".URPN.	USPAT	OR	OFF	2003/10/23 07:50
S71	0	"6557645".URPN.	USPAT	OR	OFF	2003/10/23 07:51
S72	7	("1630783" "1662839" "1790467" "2900029" "3135332" "4552221" "4854342").PN.	USPAT	OR	OFF	2003/10/23 07:51
S73	4	"2900029".URPN.	USPAT	OR	OFF	2003/10/23 07:52
S74	2	"1790467".URPN.	USPAT	OR	OFF	2003/10/23 07:53
S75	1	"1662839".URPN.	USPAT	OR	OFF	2003/10/23 07:54
S76	1	"1630783".URPN.	USPAT	OR	OFF	2003/10/23 07:55
S77	0	"1866766".URPN.	USPAT	OR	OFF	2003/10/23 07:56
S78	1	"1911107".URPN.	USPAT	OR	OFF	2003/10/23 07:57
S79	2	"1790467".URPN.	USPAT	OR	OFF	2003/10/23 07:58
S80	1	"1662839".URPN.	USPAT	OR	OFF	2003/10/23 08:00
S81	1	"1630783".URPN.	USPAT	OR	OFF	2003/10/23 08:05
S82	824	137/559	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/23 08:38
S83	13	137/559 and flapper	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/23 08:38
S84	759	(differential valve) and clapper	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/23 08:39

S85	18	((differential valve) and clapper) and (access near port)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/23 08:39
S86	577	(169/19 169/20 169/18 169/21 169/22 137/523) and valve	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/10/23 09:51
S87	1307	169/19 169/20 137/523	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/23 10:03
S88	912	(169/19-22).CCLS.	USPAT; USOCR; EPO; JPO; DERWENT	OR	OFF	2003/10/23 11:00
S89	0	"533824".URPN.	USPAT	OR	OFF	2003/10/23 10:13
S90	1179	(251/74,298,72).CCLS.	US-PGPUB; USPAT; USOCR; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/10/23 11:02
S91	1652162	differential valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/11/03 09:46
S92	5903	(differential valve) and sprinkler	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2003/11/03 09:46
S93	721	(differential valve) and clapper	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/03 09:46
S94	61	((differential valve) and clapper) and sprinkler	USPAT; EPO; JPO; DERWENT	OR	OFF	2003/11/03 09:46
S95	599	(251/359).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/02 12:46
S96	497	(251/310).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/02 12:46

S97	238	(137/523).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/02 12:46
S98	835	(137/527.8).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/02 12:47
S99	421	(137/522).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/02 12:47
S10 0	258	(137/516.25).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/02 12:48
S10 1	2814	S95 S96 S97 S98 S99 S100	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/02 12:48
S10 2	92	S101 and (flapper or clapper)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2004/09/02 14:09
S10 3	0	S101 and (cantiliver\$3 near lip)	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/02 14:10
S10 4	141	S101 and lip	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/02 14:13
S10 5	5699	(flapper or clapper) near valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/02 14:12
S10 6	733	(dr\$3 near pip\$3) near valve	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/02 14:13

S10 7	6403	S105 S106	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/02 14:13
S10 8	751	S107 and lip	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2004/09/02 14:13
S10 9	2	("6810963").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/25 13:52
S11 0	17	("0533824" "1630783" "1662839" "1790467" "1866766" "2900029" "3135332" "3613720" "4552221" "4854342").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/25 13:53
S11 1	22	("3613720").URPN.	USPAT	OR	OFF	2005/04/25 14:20
S11 2	253	(137/516.29).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2005/04/25 14:40
S11 3	12	("1630783" "1662839" "1790467" "2900029" "3135332" "4552221" "4854342").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/25 14:42
S11 4	5	("3058487" "3295547" "4090529").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/25 14:43
S11 5	10	("0733748" "0828236" "1505958" "2482198" "2767735").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2005/04/25 14:44
S11 6	2	("4090529").URPN.	USPAT	OR	OFF	2005/04/25 14:46